



CLAIMS:

What is claimed is:

- 1. A disposable bag for collecting leaves, lawn debris, or particulate matter composing
 - a. a top portion and a bottom portion of the said bag, when the said bag is set horizontally, with at least one of the said top and bottom portions being made of a material with an air permeability ranging from $20 \text{ ft}^3/\text{ft}^2/\text{min}$ to $1200 \text{ ft}^3/\text{ft}^2/\text{min}$, according to ASTM Standard D737 -96;**
 - b. two side portions of the said bag, when the said bag is set horizontally, made of a material with an air permeability ranging from $300 \text{ ft}^3/\text{ft}^2/\text{min}$ to $1500 \text{ ft}^3/\text{ft}^2/\text{min}$, according to ASTM Standard D737 -96;**
 - c. an opening of the said bag to receive leaves, lawn debris, or particulate matter from a discharging chute of a powered tool, including but not limited to lawn mowers, leaf blowers, vacuum cleaners, grinders, and saws, or from a manual tool, such as a dustpan;**
 - d. a tightening mechanism at the opening of the said bag;**
 - e. a sealed end of the said bag sealing the said top, bottom and side portions, in the opposite to the above said opening;****
- 2. The disposable bag of claim 1 wherein the said material is a fibrous nonwoven material.**
- 3. The disposable bag of claim 1 wherein the said material is a fibrous nonwoven material reinforced with a woven screen or an extruded net.**
- 4. The disposable bag of claim 1 wherein the said material is polymeric film, regionally perforated with holes, linear slits, biaxial slits, or the**

- combinations, so that the perforated and the non-perforated areas form a grid-like pattern.
5. The disposable bag of claim 1 wherein the said material is paper, regionally perforated with holes, linear slits, biaxial slits, or the combinations, so that the perforated and the non-perforated areas form a grid-like pattern.
 6. The disposable bag of claim 1 wherein the material of said top and/or bottom portions is a coated fibrous material with an air permeability ranging from $20 \text{ ft}^3/\text{ft}^2/\text{min}$ to $1200 \text{ ft}^3/\text{ft}^2/\text{min}$.
 7. The disposable bag of claim 4 wherein the regionally perforated film is reinforced with a nonwoven fabric, a woven screen, an extruded net, or their combinations.
 8. The disposable bag of claim 5 wherein the regionally perforated paper is reinforced with a nonwoven fabric, a woven screen, an extruded net or their combinations.
 9. The disposable bag of claim 1 wherein the said tightening mechanism is a string, a belt, or a ribbon, going through the holes at the opening end of the said bag.